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INSPECTIONS & ASSESSMENTS

AD-A166 232

NAVAL STATION
ADAK, ALASKA

FPO-1-81(5)

SEPT 1980

OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE CHESAPEAKE DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON, D.C. 20374

UNDERWATER FACILITIES INSPECTIONS AND ASSESSMENTS AT

NAVAL STATION
ADAK, ALASKA

FPO-1-81(5)

SEPT 1980

PERFORMED FOR:

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OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE

CHESAPEAKE DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

WASHINGTON, D.C. 20374

INSPECTION PERFORMED AND REPORT PREPARED BY:

UNDERWATER CONSTRUCTION TEAM TWO PORT HUENEME, CA

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INTRODUCTION

The underwater inspections reported herein were performed by Underwater Construction Team Two (UCT-2) at the request of and with funding from the Underwater Inspection Program managed by Naval Facilities Engineering Command, Chesapeake Division, Code FPO-1. This program is part of the Specialized Inspection Program initiated in FY 80 and directed by the Naval Facilities Engineering Command, (NAVFACENGCOM), Code 100 office. This centrally funded program establishes within NAVFACENGCOM the capability for coordinating all Navy efforts to inspect and assess the underwater condition of the Navy's major waterfront facilities.

The UCT-2 inspections were planned by FPO-1 as part of the Underwater Inspection Program. However, FPO-1 manpower limitations prevented the desired monitoring and integration of these inspections into the program, thus the inspection data was not recorded and reported in the manner established for the program. The underwater inspection report included herein is as received from UCT-2 with the following items added by FPO-1:

Sketch of Pier Pl02 Pier T-1403 pile plan Fuel Pier pile plan

CANADA MINISTRA

RUNWAY APPROACH LIGHT PILINGS NAVAL STATION ADAK, ALASKA

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INSPECTION SUMMARY FOR ADAK RUNWAY APPROACH LIGHT PILINGS

- 1. Commencing 16 July 1980 UCT TWO Det Adak inspected the runway centerline approach lights at Naval Station Adak, Alaska. The inspection data is referenced to Y & D drawing number 1,090,364, sheet 2 of 11. The runway approach light support pilings are 16 inch diemeter crossote treated timber piles with tar impregnated burlap cap covers. There were a total of 10 bents with four vertical and four batter piles per bent.
- 2. A total of 56 piles were inspected from muck line to the high water mark. Since no as-built drawings were available a numbering system was established in which bents were numbered 1 10 going shoreward and batter piles lettered consecutively (see attached sketch). From the muck line to the high water mark, all piles appear in excellent condition. There exists a moderate growth of barnacles, and sea anemones and heavy kelp growth in the splash zone. Of the 56 piles, five had moderate damage ranging from evidence of marine borers to structural damage from apparent dredge cutter head contact or ship impact. Inspection sheets of all piles are attached as tab (A) of this enclosure. A sketch of pile placement and the numbering system used on the data sheets is included as tab (B).

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DEPARTMENT OF THE NAVY

UNDERWATER CONSTRUCTION TEAM TWO NAVAL CONSTRUCTION BATTALION CENTER

PORT HUENEME, CALIFORNIA 93043

UCT2:DMF:vm 5000 9 December 1980

From: Officer in Charge, Underwater Construction Team TWO

To: Commanding Officer, Naval Station Adak, Alaska

Subj: Report of Fier Inspections NAVSTA Adak

Ref: (a) UCT TWO OpOrd 5-80 of 8 Apr 80

Encl: (1) Inspection Data and Summary for Runway Approach Light Pilings

(2) Supply Pier (P-102) Inspection Report with Photos # 5

(3) Supply Pier (T-140**9**) Inspection Report with Photos

(4) Fuel Pier Conford

1. As tasked by reference (a), UCT TWO Det Adak conducted an inspection of the Runway Approach Light Pilings, Supply Pier T-1403, Supply Pier P-102, and the Fuel Pier at Naval Station Adak, Alaska.

2. Enclosures (1) through (4) are forwarded as the preliminary report on the subject project. A final report will be prepared and forwarded by CHESNAVFACENGCOM.

T. H. CHRISTENSEN

Copy to:
PWC Adak, AK
COMCBPAC (w/o energ)
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CHESDIV (FPO-1) (2 copted)

INSPECTION SUMMARY FOR SUPPLY PIER #P-102

- 1. UCT TWO Det Adak, Alaska inspected Supply Pier P-102 commencing 21 July 1980. The inspection Pata is referreed to NAVFAC drawing number 6077532.
- 2. The Supply Pier is constructed of 16 inch diameter concrete reinforced piles. Each bent has either four piles (bents 1-9) or eight piles (remaining 29 bents). A total of 168 piles were inspected from the mud line to the high water mark. Of the 168 piles inspected, four had minor to moderate damage including some spalling and slight rust bleeding. In general the pilings of this recently constructed pier seem to be in excellent condition, and are only lightly covered with marine growth.
- 1. Inspection sheets of all piles are attached as tab (A) of this enclosure. Photos of this inspection are attached as tab (B).

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PORT HUENEME CALIFORNIA 95043

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XX Light	XX Light		XX Light biological	XX Light biological Light kelp at sur XX Light biological Light biological	XX Light biological Light kelp at sur XX Light biological Light biological	NO MIN MOD MAJ SEV MECH BIO FUNC DEPTH RGT WIDTH PENETR COMMENTS XX	OF DAY: 11:25 TIDE: AATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: PILE DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX XX XX XX XX XX XX XX XX	MATERIAL: TIMBER STEEL PIPE STEEL SHEET KXX CONCRETE STEEL "H" PI OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: PILE DAWAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX XX XX XX XX XX XX XX XX	MATERIAL: TIMBER STEEL PIPE STEEL SHEET KXX CONCRETE STEEL "H" PION DAY: 11:25 TIDE: AATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: NI NO MIN MOD MAJ SEV MECH BIG FUNC DEPTH HGT WINTH PENETK XX XX XX XX XX XX XX XX XX	NAME/N. New supply pier; no. 5 PILE TYPE: [XXXBEARING FENDER SHEET MATERIAL: []TIMBER STEEL PIPE STEEL SHEET STEEL "H" PI OF DAY: 11:25
XX XX XX XX XX Light Light Light	XX XX XX XX XX Light Light Light Light	XXX	XX Light biological	XX Light biological Light kelp at sur XX Light biological	XX Light biological Light kelp at sur XX Light biological	XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	OF DAY: 11:25 TIDE: AATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: PILE DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX XX XX XX XX XX XX XX XX	MATERIAL: TIMBER SCEEL PIPE STEEL SHEET KXXCONCRETE STEEL "H" PI OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: NI NO MIN MOD MAJ SEV MECH BIO FUNC DEPTH HGT WIDTH PENETH XX XX XX XX XX XX XX XX XX	MATERIAL: TIMBER STEEL PIPE STEEL SHEET KXX CONCRETE STEEL "H" PROPER STEEL "H" PROPENSIONS OF DAY: 11:25 TIDE: ANTER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: TILE DANAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX	NAMEAN MODIMAN SEVENT PROPERTY FROM DATUM = GANGE DEPTH - TIDE: XX XX XX XX XX XX XX XX XX
XX XX XX XX XX XX Light Light Light	XX XX XX XX XX XX XX XX		Light biological	Light biological Light kelp at sur	XX Light biological Light kelp at sur	NO MIN MOD MAJ SEV MECH BIO FUNC DEPTH HGT WIDTH PENETR XX XX XX XX XX XX XX XX XX	OF DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: PILE DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX XX XX XX XX XX XX XX XX	MATERIAL: TIMBER SCEEL PIPE STEEL SHEET KXX CONCRETE STEEL "H" PION DAY: 11:25 TIDE: PILE DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENTS XX	NATERIAL: TIMBER STEEL PIPE STEEL SHEET KXXCONCRETE STEEL "H" PROFILE DAY: 11:25 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: TIME NOT MACH BIO FUNC BEPTH HGT WIUTH PENETH COMMENTS	NAME/X: Adak, Alaska NAME/X: New supply pler; no. 5 PILE TYPE: [XXX] BEARING FENDER SW-1, Yarnell MATERIAL: TIMBER STEEL PIPE STEEL SHEET STEEL STEEL SHEET STEEL STEEL SHEET STEEL SHEET STEEL SHEET STEEL SHEET STEEL SHEET STEEL STEEL SHEET STEEL STEEL SHEET SHEET STEEL SHEET SHEET
	, ,	Light biological	biological kelp at sur		SEV MECH BIO FUNC DEPTH HGT WIDTH PENETR	WATER DEPTH FROM DATUM = GAUGE DEPTH -	STEEL PIPE STEEL SHEET KXCONCRETE STEEL "H"	5 PILE TYPE: XX BEARING FENDER	DATE: 22 July 1980 DIVERS:	CASE PARTER CONTROL TEAM TWO MANAL CONTROL SAITALION CENTER PORT HUEMEME CALIFORNIA 93043

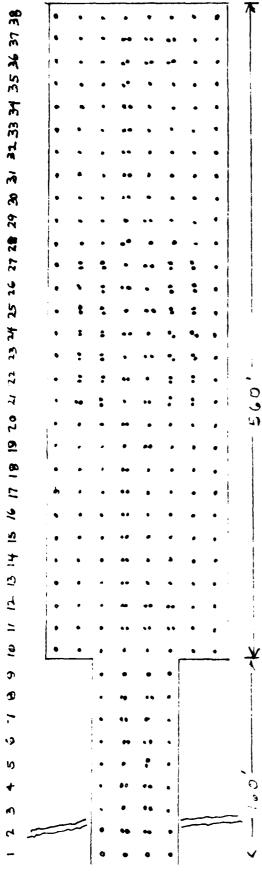
NO-NONE, MIN-MINIMUM, NOD-MODERATE, MATHMATOR, SEVER, MECH-MECHANICAL, BIOHBICLOGICAN, FUNC-FUNCTIONAL
* P= Forward batter, A= After batter

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PORT HUENEME, CALIFORNIA 93043

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Hunter SW-1, Yarnell EACN	R SHEET	STEEL "H" PILE	DEPTH - TIDE:	COMMENTS	Light biological growth		Light belogical growen Light kelp at surf zone							
DIVERS:	XX BEARING FEW SR	STEEL SHEET KYCONCRETE	DEPTH FROM DATUM = GAUGE	GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR			•							
DATE: 22 July 1980	no. 5 PILE TYPE: M	STEEL PIPE STEE	WATER DEPTH	TYPE DAMAGE GAUGE I				to be Inspected.						
: Adak, Alaska	PIER NAME/NO. New supply pier:	MATERIAL: TIMBER	DAY: 11:25 TIDE:	PILE DAMAGE TO THE PARAGE TO T	X		XX	the rip rap and unable to	the shore.					
LOCATION:	PIER NAM	TEN BIL	TIME OF	BENT PILE NO. N. I.	3 5-4	3 E XX	3 F	Bent 2 is in El	Bent 1 is on the					



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DIVERS: Hunter SW-1, Yarnell EACN	FENDER SHEET	STEEL, PIPE STEEL SHEET KX CONCRETE STEEL "H" PILE	WATER DEPTH FRCM DATUM = GAUGE DEPTH - TIDE:	COMMENTS
IVERS: Hunt	FENDE	K CONCRETE	UM = GAUGE	TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE
ļ	X BEARING	L SHEET KX	H FRCM DAT	E DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE NO. SEV MECH BIO FONC SEVER HOLDEN FOR WILTH PENETR
DATE: 22 July 1930	PILE TYPE: KX BEARING	PE STEE	WATER DEPT	DAU JEPT H
DA		STEEL PI		TYPE DAMAG
Adak, Alaska	supply pier;	TIMBER	TIDE:	SEV
	PIER NAME/NO. New supply pier; no. 5	PILE MATERIAL:	TIME OF DAY: 11:25	PILE DAMAGE NC MIN MOUNTAIN
LOCATION:	PIER NAM	PILE MAC	TIME OF	PILE NO.

BENT NO.	PILE NO.		PII NUMBER	PILE DAMAGE	GE Leu SEV	VINEC	E DAM	PGE PROVI	TYPE DAMAGE GAUGE	DIMEN	SIONS O	GAUGE DIMENSIONS OF DAMAGE	COMMENTS
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12	7-1	XXX											
12	D-2		X										Light biological growth only
12	(+)	XXX											
12	(z,	XXX											
12	לז		XX.										Light biological growth only
12	n:		XX										Light biological growth Moderate Kelp at surf zone
11	• <		XX										
11	က	χχ											
.	U	XIX.											
11	<u>7</u>	XX											
77	D-2		XX										Light biological growth only
11	[:]	7,7,7											
11	[14 	XX	-										

TOWNER, MINGRALL HIRM, MODEROIE, MAJELLATOR, SEVESEVER, MECHENICAL, BIOEBIOLOGICAL, FUNCEPUNCTIONAL

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VAVAL CONSTRUCTOR BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

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Hunter SW-1, Yarnell EACN	R SHEET	STEEL "H" PILE	DEPTH - TIDE:	COMMENTS		Light biclogical growth only	biological te kelp at	1 11 11 11					Light biological growth only			Light biological growth Woderate kelp at surf zone		Light biological growth only
DIVERS: Hum	FENDER	SHEET KX CONCRETE	WATER DEPTH TROM DATUM = GAUGE	OF DAMAGE			•										ì	
VIG	RING	ET XX	M DATUM	SIONS O				,										
7 1980	XXX BEARING	STEEL SHEI	TH RO	DIMEN														
DATE: 22 July 1980	TYPE:		TER DEP	DAMAGE GAUGE BIC FUNC DEPTH														
DATE	PILE	L PIPE	WW.	DAMAGE BIC FUNC														
	no. 5	STEEL	•	TYPE														
laska	ly pier;	TIMBER (TIDE	NGE SEV	· ·													
Adak, 118	NAME/NO. New supply		11:25	PILE DAMAGE	-													
	ME/NO.	MATERIAL:	DAY:	NC MI		X	X	XX					ష			хх	ХХ	××
TIO			0F	177	XXX				XX	XX	X	XX		XX	XXX			
LOCATION:	FEIG	BILE	TIME	PILE NO.	C.	לי	Ħ	Ą	ч	υ	D-1	D-2	មា	če,	c	н	₩.	m
				25.57 3.0	-1 -1	14	14	13	13	13	13	13	13	13	13	13	12	12

NOWNONE, MINEMINIMUM, MODEMOBERATE, MAJEMAJOR, SEVESER, MECHEMECHANICAL, BIOEBIOLOCICAL, FUNCEFUNCTIONAL

UNDERWATER CONSTITUTO TEAM TWO NAVAL CONSTRUCTION MATTALICY CENTER PORT HUENEME, CALIFORNIA 93043

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DIVERS: Hunter SM-1, Yarnell EACH	R SHEET	STEEL "H" PILE	DEPTH - TIDE:	COMMENTS							Light bioligical growth only	Light biological growth Moderate kelp at surf zone	= =	Enter the state of		Light biological growth only		
22 July 1980	TYPE: XX BEARING FENDER	STEEL SHEET KK CONCRETE	ER DEPTH FROM DATUM = GAUGE DEPTH	GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR														
Adak, Alaska DATE:	NAME/NO. New supply rier no. 5 PILE	: TIMBER STEEL PIPE	11:15 TIDE: WATER	PILE DAMAGE TYPE DAMAGE GAUGE														
LOCATION: Ada	PIER NAME/NO.	PILE MATERIAL:	TIME OF DAY: 11:15	1,1 NC	э ххс	c xxx	D-1 XXX	D-2 XXX	E XXX	F XXX	G XX	хх н	A XX	A.	C XXX	D-1 XX	D-2 XXX	E XXX
-1	,1	F-4		DENT PILE	15	15	15	15	15	15	15	15	14	11:	14	17	14	14

NO-NOWE, MIN-MINIMUM, MOD-MODERATE, MAJ-MAJCR, SEV-SEVES PROHEMBCHANICAL, RIO-BIOLOGICAL, FUNC-FUNCTIONAL

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Johnston 20-2, Wright BU-2	R SHEET	STEEL "H" PILE	DEPTH - TIDE:	COMMENTS				Light biological growth Foderate Kelp at surf zone						Light biological growth only			Light biological growth Noderate kelp at surf zone	
DIVERS:	TYPE: KXX BEARING FENDER	STEEL SHEET XX CONCRETE	WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:	GAUGE DIMENSIONS OF DAMAGE														
DATE: 22 July 1960	pier; no. 5 FILE	STEEL PIPE	TIDE: WATER DE	TYPE DAMAGE														
LOCATION: Adak, Alaska	PIER NAME/NO.New supply	FILE MATERIAL: TIMBER	TIME OF DAY: 10:30	DE PILE DAMAGE	XXX	XXX	XX	XX	XX	(3X)	XXX	-1 :XXX	-2 XXX	XX	XXX	XXX	XX	XX
Ŏ	Id	H	ind Ed	BENG PILE	 	17 F	17 9	17 H	15 A	15 B	16 C	16 D-1	16 D-2	15 E	15 3	16 3	16 #	15 Å

NO-NONE, MINERIENIMEN, MODENOPERATE, MAJEMATOS, SEVESEITER, MECHEMECHANICAL, BICEBIOLOGICAL, FUNCEFUNCTIONAL

CAUSERA VIEW COAS CATALION TEAM TWO AND COASTPUCHON BATTALION CENTER PORT HUEMEME CALIFORNIA 93043

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	LOTA	LCCATION:	 22	Ā	dak,	Adak, Alaska	ক্র				DATE	.:	Jul	DATE: 22 July 1980		DIVE	RS: Jo	DIVERS: Johnston EO-2, Wright BU-2	right BU-2	
	PIER	wi z	ME/	NO.	New	PIER NAME/NO. New supply pier;	Y of	- 1	90	2	PILE		PE:	KX B	TYPE: XX BEARING	<u>.</u>	FENDER	THE SHEET		
	PILE		TER	MATERIAL:		JTIMBER	BER		ST	STEEL	PIPE		STEEL	EL S.	SHEET [X Co	XXCONCRETE	STEEL "H" PILE	" PILE	
	TIME	OF.		DAY: 10:15	0:15		F4 E4	TIDE:			ER I	KELY	DEP	TH F	ROM DA	MUTA	WATER DEPTH FROM DATUM = GAUGE	оертн -	TIDE:	1
DENT NC.	PILE NO.	12	13:0		PILE DA	PILE DAMAGE MINIMODIMAJ	S	三V 区 図	TYPE MECH		DAMAGE BIO FUNC		GAUGE	DIME	ENSIONS (S OF	GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR	COMMENTS	NTS	
18	∢		X															Light biological	cal growth	
13	æ	XXX																		
18	ບ	χχ			-															
18	D-1	XX																		
18	2-2	KXX															l			
18	(r)		_¤															Light biologi	Light biological growth only	;
13	ţz	XXX																	,	
13	Ċ	KXX																		
18	æ		×															Light biclogical Moderate Kelo at	cal growth	
17	~		XX															=	=	=
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17	ຍ	Š																		
<u>ن</u> ج	7		ă															Light biologi	Light biological growth only	Ь
17	2-2	ζX																		

NO-NOVE, MINHMINIMUM, NOT - NODERATE, WIJHMAJOR, SEVHSER, MECHHMECHANICAI, BIOHBIOLOGICAL, FUNCHEUNCTIONAL

NAMES CONSTRUCTION OF A CANTEN ON A MANAGEMENT OF A CANTEN CALIFORNIA 93043

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Light biological growth only Light biological growth only n n n n n n n n
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Light biological
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Light biological growth Medium kelp at surf zone NATAL CONSTRUCTOR PROTALICA CENTER PORT HUENEME CALIFORN'A 92043

	LOCA	LOCATION: Adak, Alaska	DATE:	DIVERT: Johnston Ed	1
	PIER	R NAME/NO. New Supply	noly pier; no. 5 PILE TYPE: KKN BEARING	BEARING FENDER SHEET	
	FILE	MATERIAL:	TIMBER STEEL PIPE STEEL	STEEL SHEET KXXCONCRETE STEEL "H" PILE	
	国 数 数 数	E OF DAY: 09:50	TIUE: WATER DEPTH	WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:	- 1
PENT NO.	PILE NO.	PILE NOW AND	SEV MICH BIG FON	GAUGE DIMENSIONS OF DAMAGE COMMENTS	
;	H. C.			Light biological growth only	,
17	G-3	202			
21	* *	752;			
21	IJ	XX		Light biological growth only	h
12	E-1	XX			ا ۽
12	6-2 E	XX		= =	• •
21	[1.	ממא]
21	F-A	XXX			
21	÷ G-F	XXX			
21	H	<u>x</u>		Light Wiological growth Hoderate kelp at surf zone	
20	Ą	xx			
20	m	אָכִגִּין			

NO=YONE, MINHINIMUM MCD=MODDELTE, MAJHMAJOR, SEVHSETTIR, MECHAMPOHANICH, FRINGETORGOTONI, FUNCHINGTIONAL
* F= Forward batter A= After batter

Light biological growth only

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LADAL COMPUSIONE CALIFORNIA 93043

E E E	ARING FENDER [] SET KXXCONCRETE [STE CM DATUM = GAUGE DEPTH ISTONS OF DAMAGE
FILE DAMAGE TYPE DAMAGE CAUGE DIMENS AIN MOD MAJ SEV MECH BIO FUNC DEPTH HGT	3
	Light biological growth only
	Light biological grouth only
	= = = = = = = = = = = = = = = = = = = =
	Light biological growth Noderate Relp at surf zone

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	LOCA	LOCATION:		Adak	Adak, Alaska	ka		70	E E	DATE: 22 July 1980	7 1990	<u>G</u>	DIVERS: Johnston EO-2, Wright BU-2	unston	EO-2, W	right B	30-2	
	PIER	MAME/NO.	/NO.	Ne	New supply pier	pier	no	5 P	PILE T	TYPE:	XXX BEARING	ARING	FENDER	ER .	SHEET	د		
	PILE		MATERIAL:		TIMBER	<u>~</u>	STEEL) adid	STE	STEEL SHEET		KXX CONCRETE		STEEL ":	"H" PILE	பு	
	STRE	OF	DAY:	09:30		TIDE:			WATE	R DEP	TH FR	WATER DEPTH FROM DATUM =	M = GAUGE	п овртн	1	TIDE:		
ENT O	FILE NO.			LE DE	PILE DAMFIGE	SEV	TYPE	DAMAGE BIO FU	SE	TYPE DAMAGE GAUGE MECHIBIO FUNC DEPTH		DIMENSIONS OF HST WIDTH	OF DAMAGE PENETR	ш	COMMENTS	STME		
23	₩	< i	l i												Light biological Moderate kelp at	•	growth surf zone	je je
23	÷ -5	7,27																
33	*	X	×											Lich	Light biological growth only	zical g	rowth c	n]:
23	* C-F	XX					-							··				,
23	* C-A	22																
23	ជ	X	ž											ligh	Light biclogical growth only	gical g	rowth c	nly
23	1-1		×											=	±	Ξ	11	=
23	5-3	XXX																
23	± ± ±	XXX						-										
23	F-A	XXX																
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23	** C)	XX																
23	III	X												Ligh !ode	Light biological growth Moderate kelp at surf zone	gical g	growth surf zor	<u>o</u>
22	-4	777		· -										=	#	=	-	=

NO=MONE, MINSMINING MADDESCOURS AND MADSMIN SEVESEVER, MECHSMICHALICAL, BIOSDICAL, FUNCSFUNCTIONAL F= Forward batter 4= After batter PNOERWATER COPS CORON FEANTWEN NAVAL CONSTRUCTION BATT/LIGN CENTER PORT HURNEME CALIFORNIA 93043

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30-3, Duran E0-3	Знеет	STEEL "H" PILE	TH - TIDE:	COMMENTS	Light biological growth Roderate Kelp at surf zone	=					Light biological growth		Light biological growth					Light biological growth Soderate kelp at surf Zone
DATE: 21 July 1980 DIVERS: Defille 30-3, Duran E0-3	dy vier; no. 5 PILE TYPE: [XX] BEARING FENDER	TIMBER STEEL PIPE STEEL SHEDT KKKCONCRETE ST	TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:	SE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE		=					Light		Light					Light
LOCATION: Adak, Alaska	PIER NAME/NO. New gungly pier: no. 5	PILE MATERIAL: TI	TIME OF DAY: 13:45	PILE PILE DAMAGE	XX	A ZX	B-F XXX	* 3- A XZX	C-F XXX	*c-A XXX	2-1 XX	0-2 XXX	ΕXX	* F-7 XXX	* F-n XXX	* G-P XXX	# G-A X:X	H XX
				BENT PILE		77	77	57	57	7.7	772	24	7	24	772	777	27,	772

FIOND, MINENTHINGH, NODEMODERSTE, MAJEMAJOR, SEVERENZER, NECHANICAL, BIOEBIOLOGICAL, FUNCEFUNCTIONAL * F= Forward batter A= After Batter UND PERATER CTA.

NAVAL CONSTRUCTOR ASSISTACION CENTER PORT HUENEME CALIFORNIA 93043

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	LOCATION:	TION	;;	Å	Adak, Alaska	Ala	ska					DATE:		21 5	21 July 198)	(86)	DIV	DIVERS: Deville E0-3.	1:111e	EO-3, Du	Duran EO-3	7	
	PIER NAME/NO. New supply	NA	1E/1	Š.	New	dns	7Lc	pier	; no.5	3	ρ.	PILE	TYPE:		E SSS	XXX BEARING	<u> </u>	FENDER	ER				
	PILE		년 전	MATERIAL:	<u></u>		TIMBER	ex.		STEEL		PIPE		STEEL		SHEET	XX	KKACONCRETE		STEEL "H"	" PILE	យ	
	日記日	Q.	SAC	٦ ::	DAY: 13:45	2	€+ 	TIDE					WATER	DEPTH		ROM D	ATUM	FROM DATUM = GAUGE	Е ОЕРТН	1	TIDE:		
BENT PILE NC. NO.	PILE NO.		NC	PII	PILE DAMAGE	KMA M O		SEV	TYPE	3E 1	DAMIGE BIG FU	GE	DAMNGE GAUGE BIG FUNC DEPTH	Ţ	DIME	2	SIONS OF WIDTH	PENETR	வ	COMMENTS	SEN		
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25	* #	Š			ļ		 																
23	* 4	XX																					
2.5	* C-A		¤								_								Ligh	Light biological growth only	cal gr	owth o	nly
25	ر ان ان	C-F XXX						ļ			······································												
25	O	XXX																					
25	E-1		XX																Ligh	Light biological growth	cal gr	owth	
25	E-2	B-2 XXX																					
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25	; [7]		Ħ																Ligh	Light biological growth only	cal gr	owth o	nly
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NATAL CONSTRUCTION TEAM TWO NATAL CONSTRUCTION BATTALION CENTER PORT HUENEME. CALIFORNIA 93043

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DIVERS: DeMille EC.3, Duran EO-3 FENDER SHEET STEEL "H" PILE TUM = GAUGE DEPTH - TIDE:	COMMENTS	Light biological growth only Light biological growth Woderate kelp at surf zone					Light biological growth only			Light biological growth only		Light biological growth only	
TE: 21 July 1980 DIVERS: DeMiller TYPE: KXX BEARING FENDER PE STEEL SHEET KXX CONCRETE WATER DEPTH FROM DATUM = GAUGE	GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR												
RING ET (NSIONS O												j
21 July 196 PE: KXX BE STEEL SH DEPTH FR	UGE DIME												
DATE: 21 July 1980 PILE TYPE: KXX BEAL PIPE STEEL SHEE WATER DEPTH FROM	MECH DIC FUNC DEPTH												
no. 5 E	PE DAMA												
F	 												
Adak, Alaska New supply pi : TIMBER 13:00 TI	FILE DAMAGE MIN MOD MAJ SEV												
/NO. RIAL	X	S X	Ŋ	×	ж	:4	ă		×	X		, YX	
LOCATION: PIER NAME PILE MATE TIME OF D	PILE NO.		A	B-F XXX	. 3-4. KKX	π C~F XXX	\$ C=1	D-1 ZZZ)-2 ZCK	(1)	XXX 4−2	** **	25 # B
	BENT NC.		5 2	,5,	26	35	<u> </u>	20	25	36	26	2.5	26

NO=NOWS, MIN=MINIMUM, MOD=NODIMATE, MAJ=MAJCR, SEV=SEVEP, MECH=MECHANICAL, SIO=BICLGGICAL, FUIC=FUNCTIONAL * F=Forward Satter, A= After Batter CHORRANDER 15 CTICN TEAM TWO NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME. CALIFORNIA 93043

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DeMille EO-3, Duran EO-3	оек []sнеет	s STEEL "H" PILE	SE DEPTH - TIDE:	COMMENTS	Light biological growth	Scalding; rust bleed present no rebar excosed	Light biological growth	Light biological growth Moderate kelp at surf zone	= =	Light biological growth only				Light biological growth only	= =			
DIVERS: De	FENDER	SHEET KXX CONCRETE	FROM DATUM = GAUGE	OF DAMAGE			•											
	XXX BEARING	IEET KK	ROM DATU	DIMENSIONS OF HGT WIDTH		8,												
y 198	XXX BI		рертн F			5												
21 July 1980	TYPE:	STEEL	WATER DEF	GAUGE		101												
DATE:	PILE	PIPE	WAT	DAMAGE BIO FUNC		XXX												
	cier; no. 5	STEEL)E:	TYPE DAI														
Adak, Alaska	NAME/NC. New suprily of	TIMBER	O TIDE:	PICE DAMAGE MIN MOD MAJ SE														
Adak	C. New	AL:	: 12:30	PICE		XXXX												
ON:	AME/N	MATERIAL:	F DAY:	O.	χχ.		×	X	χχ	X	- *	×	×	X	XX	×	Х	-X
LOCATION:	PIER N	PILE M	TIME OF	ILE NO.	ω	£i.,	O.	æ	Ą	* 3-A	B-F XXX	C-A XXX	C-F XXX	Д	B-1	B-2 XX	F-A XXX	F-F XXX
Ţ	Δį	ρί	H	SENT PILE	28	2.8	28	28	27	27 1	27	27 (27 (27	27	27	27	27

NO=NONE, MIN-MINIMUM, MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHNICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

* A= After batter F= Formard batter

PAGE RAFTER CONSTITUTION FRANCES NAVAL CONSTRUCTION PATENDON CENTER PORT HUENEME CALIFORNIA 93043

	LCCA	LCCATION:	Ä	dak,	Adak, Alaska	g.			DAT	DATE: 21 July 1980	July	1980	Id	VERS: Arms	DIVERS: Armstrong CE-1, Voris CM-3	is CK-3	
	<u>त</u> ज	NAME/NO. New supply	KO. 1	New	ladns	y nie	8:	5	PILE		四 ::	TYPE: KXX BEARING	RING	FENDER	R SHEET		
	[일 [편 [편	MATERIAL:	IAL:		TIMBER	35.22		STEEL	BIPE.		STEE	STEEL SHEET		EXX CONCRETE	STEEL "H"	PILE	
	다 는 는	CF	DAY: 12:20	2:30		TIDE			<u> </u>	WATER	DEPTH		M DATU	FROM DATUM = GAUGE	DEPTH - TIDE:		
6. 0 8. 0 8. 0	PILE NC.	O'N	PIL	E DA	PILE DAMAGE	SEV		E DA	TYPE DAMAGE MECH BIO FUNC	1GA (C) DE	GAUGE [HOT	DIMENSIONS (OF DAMAGE	COMMENTS	Si	
56	A	X													Light biological growth Moderate kelp at surf zone	al growth at surf zone	
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29	O	XXX															
29	D-1	XX															
29	D-2 27.X	1221															
53	ភៀ	XX	_														
29	[z.	X													Light biologic	al growth on	ĽΥ
29	t)		KCCX						XXXX	 	101	8"	183	2"	Jouge, no rebar exposed rust bleed is present	r exposed present	
29	m	X													Light biological growth Moderate kelp at surf zone	al growth at surf zone	
32	¥	X														н	=
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58	D-2 XXX	XXX															

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAT=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=BIOLOGICAL, FUNC=FUNCTIONAL

CYCERARIER CORD CTON TEAM TWO NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043

Control State Control
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Armstrong CE-1, Voris CM-3	SR SHEET	STEEL "H" PILE	S DEPTH - TIDE:	COMMENTS					Light biological growth Noderate kelp at surf zone		Light biological growth only					Jouge, no rebar exposed rust bleed is present	Light biological growth Light kelp at surf zone	Light biological growth Moderate kelp at surf zone
DIVERS: A	FENDER	XXXCONCRETE	WATER DEPTH FROM DATUM = GAUGE	DIMENSIONS OF DAMAGE HGT WIDTH PENETR												2"		
IG —	RING		M DATU	SIONS (119		
7 1980	XX BEARING	EL SHEET	тн FRO													3"		
DATE: 21 July 1980	TYPE:	STEEL	ICR DEF	GAUGE DEPTH												101		
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	oier; no. 5	STEDE	TIDE:	SEV MECH BIO FUNC DEPTH														
k, Alaska	a Aldans	TIMBER	İ	1 1														
Adak	NAME/NO. New supply	IAL:	DAY: 12:20	PILE DAMAGE NO MIN MOL MAJ												XXX		
NOI:	NAME/	MATERIAL:	OF DAY	NI NO	XXX	XXX	X	XXX	X	XX	XX	XXX	χα	ά	XXX		X	X
LOCATION:	PIER	PILE	TIME		D-2	妇 .	(E4	ť	H	Ą	m	ບ	D-1	D-2	ы	Çe,	ŋ	Ħ
				BENT PILE NO. NO.	31	31	31	31	31	30	33	30	30	30	30	%	30	30

NOSNONE, MINSMINIMUM, MODSMATE, MEJSR, SEVSENEN, MEGHSMECHANICAL, BIOSBICLOGICAL, FUNCSFUNCTIONAL

MANAL CONTRACT ON BATTALION CENTER PORT HUENEME, CALIFORNIA 93043

SCHOOL SERVICE COST TOOLS

	LOCATION:	TION	ä	V	Adak, Alaska	Alas	ka			DATE:	DATE: 21 July 1980	y 1980	VIG	ERS: GII	DIVERS: Gilliam HM-2, Yarnell EACH	1
	PIER	NA	ME/N	PIER NAME/NO. New supply	ins 15		pier;	no.	2	PILE	PILE TYPE: 1	KKK BEARING	RING	FENDER	R SHEET	
	PILE	MAG	TERI	MATERIAL:		TIMBER		ST	STEEL	PIPE	STE	SL SHE	ET CO	STEEL SHEET CONCRETE	STEEL "H" PILE	
	EMI	OF		DAY: 10:30	8		TIDE			WAT	WATER DEPTH	IH FROM	M DATUM	DATUM = GAUGE	DEPTH - TIDE:	1
NT.	PILE NO.	17;		NO MIN MOD MAJ	PILE DAMAGE MIN MOD MAJ	MAJ	SEV		TYPE DAMAGE	AGE	TYPE DAMAGE GAUGE MECH BIO FUNC DEPTH		SIONS O	DIMENSIONS OF DAMAGE HGT WIDTH PENETR	COMMENTS	
~	æ		XX												Light biological growth Moderate Kelp at surf zone	
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2	9			XXX				XXXX			351	31				=
23	ວ	XXX														
2	D-1	XX														
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2	[±]		×												Light biological growth only	>
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2	Ġ		X												Light biological growth only	Ā
2	×		×												Light biological growth Moderate kelp at surf zone	
1	V		X													=
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NAVAL CONSTRUCTION BATTALION CENTER
PORT HUENEME CALIFORNIA 93043

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-2, Ye]sнеет		1	COMMENTS	biolog	=	=	=	=	Light biological Moderate kelp at	=	biological	=	=	æ	=	=	=	
Gilliam HM-2,		STEEL	DEPTH		ight	=	=	=	=	ight odera	=	Light	=	•	æ	Ξ	=	=	
DIVERS: G111	FENDER	SHEET KX CONCRETE	M = GAUGE DEPTH	GAUGE DIMENSIONS OF DAMAGE DEPTH HGT WIDTH PENETR	<u> </u>		•					1							
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y 1980	XXBEARING		тн ғво	DIMEN															
DATE: 21 July 1980	TYPE:	STEEL	ER DEP	TYPE DAMAGE GAUGE MECH BIG FUNC DEPTH															
DATE:	PILE '	PIPE	WAT	AGE FUNC															
	2	STEEL		TYPE DAMAGE															
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ka	y pier	TIMBER	TIDE	PILE DAWAGE NO MIN MOD MAN SEV															
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Adak,). New	.: -:-	DAY: 10:00	PILE DAMAGE															
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Gilliam HM-2, Yarnell		STEEL	ОЕРТН		Light biological growth	Light biological oderate kelp at s	=	Light biological growth	=	=	=	Ε	=	æ	Light biological	Light biological Moderate kelp at	Light biological	=	
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ska	ly pie	विद्यास्त्र	TIDE	E SE															
, Alaska	supply	=======================================		PILE DAWAGE															
Adak,	New .	.;;	DAY: <u>09:20</u>	PILE MIN-E															
;;	NAME/NO.	MATERIAL:	DAY:	M ON	**	XX	ă	×	Ä	×	X	×	<u></u> خ	Ħ	Ħ	X	XX	×	i
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		٠, ٠	NO.	37	37	37	37	37	35	36	36	36	- - ا	36	36	36	36
	PIER NAME/NC. New supply pier; no. 5 PILE TYPE: KX BEARING FENDER SHEET	NAME/NC. New supply pier; no. 5 PILE TYPE: KX BEARING FENDER MATERIAL: TIMBER STEEL PIPE STEEL SHEET KXCONCRETE STE	NAME/NC. New supply pier; no. 5 PILE TYPE: KX BEARING FENDER SHEET MATERIAL: TIMBER STEEL PIPE STEEL SHEET XX CONCRETE STEEL "H" OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE	PIER NAME/NG. New supply pier; no. 5 PILE TYPE: X BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET X CONCRETE STEEL "H" TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE TPILE PILE DAMAGE TYPE DAMAGE GAUGE DIMENSIONS OF DAMAGE COMMENT. NO. MI NO MINIMODIMAJ SEV MECH BIC'FUNG DEPTH HGT WIDTH PENETR COMMENT	PIER NAME/NG. New supply pier; no. 5 PILE TYPE: X BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET XX CONCRETE STEEL "H" TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE TOUR NO. NI NO MIN MOD MAJ SEV MECH BIG FUNC DEPTH HGT WIDTH PENETR COMMENT E-2 XX	PIER MAME/NC. New supply pier; no. 5 PILE TYPE: XX BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET XX CONCRETE STEEL "H" PILE TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: TPILE NO. NI NO MIN MOD MAJ SEV MECH BIC FUNC DEPTH HGT WIDTH PENETR COMMENTS B-2 XX	PIER MAME/MC. New supply pier; no. 5 PILE TYPE: KX BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET KX CONCRETE STEEL "H" PILE TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: NO. MI NO MIN MOD MAJ SEV MECH BIC FUNC DEPTH HGT WIDTH PENETR E-2 XX	PIER NAME/NC. New sumply pier; no. 5 PILE TYPE: XX BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET XXXCONCRETE STEEL "H" PILE TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: NO. NI NO MIN MOD MAJ SEV MECH BTG FUNC DEPTH HGT WIDTH PENETR COMMENTS B-2 XX	PIER MAME/NC. New supply pier; no. 5 PILE TYPE: KX BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET XXXCONCRETE STEEL "H" PILE TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: NO. MIN MOD MAJ SEV MECH BIG FUNC DEPTH HGT WIDTH PENETR E-2 XX F-1 XX R-2 XX R	PIER HAME/WG. New supply pier; no. 5 PILE TYPE: KX]BEARING FENDER SHEET PILE MATERIAL: TIMBER STEEL PIPE STEEL SHEET KX CONCRETE STEEL "H" PILE TIME OF DAY: 09:00 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE: TPILE NO. MIN MOD MAJ SEV MECH BTG FUNG DEPTH HGT WIDTH PENETR F-1 XX	PIER 3.12ME/NC. Mew supply pier; no, 5 PILE TYPE: XX BEARING FENDER SHEET	PIER 11AME/NC. New sumply plen; no, 5 PILE TYPE: XX BEARING FENDER STEEL "H" PILE	PIER HAME/NG. Mew supply pier; no. 5 PILE TYPE:	PIER ::	PIER HAME May supply pier; no. 5 PIER TYPE; MATER DEPTH MATER DEPTH FROM DATUM = GAUGE DEPTH TILE;	PIER 1	PIER HAME/HC. Mew supply pier; DAY
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NOTIONE, MINTHIMIMING MODINCOSPACE, MAZINICE, SIVISENIER, MECHIMECHANICAL, RIOFBIOLOGICAL, FUNCFRUNCIIONAL

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NAVAL CONSTRUCTOOL BATTALION CENTER CITES TEAM TWO PORT HUENEME CALIFORNIA 93043

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	LOCA	LOCATION:		Adak	Adak, Alaska	ska			DAT	DATE:	18 Ju	18 July 1930	į	ERS:	Armst	DIVERS: Armstrong CE-1, Voris CM-3	-1, Vo	ris G	<u>1</u> -3	
	PIER	NAME/NO.	wo.		Fuel F	Pier			PILE		PE:	TYPE: [XX] REARING	ING	FENDER	NDER	IS!	SHEET			
	PILE	MATERIAL:	TAI		TAMER	ਸ ਜ਼ ਨ		STEEI	STEEL PIPE		JSTEE	STEEL SHEET XX CONCRETE	X	CNCRE	L_J H	ETEET "H" PILE	= = =	PILE		
	TIME	S	DAY: 12:30	2:30		TIDE	ü		33	ATER	DEPT	WATER DEPTH FROM DATUM = GAUGE	DATUM	E G.P.		DEPTH -	- TIDE:	;;		
BENT NO.	PILE NO.				Pils DAMAGE	SEV	L - I -	E DA	TYPE DAMAGE GAUGE MEPTH		AUGE		IMENSIONS OF DAMAG HGT WIDTH PENETR	F DAM	AGE		COMMENTS	rs		
n:		XX	 									L				Light biological growth water depth 5'	logica oth 5'	II gro	ACh ACh	
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C~	7	XX	! !												33	Light biological growth water depth 4'	logica oth 4'	1 gro	Ath Ath	
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· 5	₽		<u>ă</u>				XXXX	<u></u>				1.9	3#	1.5"		Damage 3.5 above waterline	3.5 ab	ove w	aterli	ле
ν.	2	<u> </u>	 							-					[] %	Light biological growth water depth 2'	ologica oth 2	al gro	wth	

TOWNS, WINEW FARMON NODERANDS AND FALLON, SEVERENCER, MECHENALOTICAL ALCE FOLGOIGAL, FUNCEFUNCTIONAL

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Damage 1' above waterline

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PORT HUENEME CALIFORNIA 93043

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Armstrong CE-1, Voris CK-3	OR SHEET	STEEL "H" PILE	DEPTH - TIDE:	1-1-	Noderate biological growth rater depth 25° moderate kelp	Noderate biclogical growth water depth 31° moderate kelp	Coderate biological growth water depth 30' moderate kelp		Soderate biological growth	Coderate blological growth tater ucpth 23' moderate kelp	Roderate biological growth		cal growt moderate	Moderate biological growth water depth 10° moderate kelo	Moderate biological growth water depth 9' moderate kelp	Moderate biological growth water depth 14 moderate kelp	Light biological growth water depth 7'	Light biological growth rater depth 12'
DIVERS: Am	FENDER	SHEET XX CONCRETE	DATUM = GAUGE	S OF DAMAGE														
July 1980	[XX] BEARING	steel sheet K	DEPTH FROM DA	H HGT WINTH									 					
DATE: 18 J	PILE TYPE:	PIPE	WATER DE	DAYAGE GAUGE BIC FUNC DEPTH														
	£,	THESTER	: 3075	F. MECH	·													
Adak, Alaska	Fliel Pier	6. G G G A A A A A A A A A A A A A A A A	12:30	BING COM WINDS														
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NOTICE, MINISTERNITARY, MODERACOSTATE, MADERACIS, SEVERENERS, MRCHENECHANICAL, BIOEBIOLOGICAL, FINC-PUNCTIONAL

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NATAL CONSTRUCTOR ENTINE DATE PORTER
NATAL CONSTRUCTOR ENTINE DATE PORT HUENEWE CALIFORNIA 93043

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	LOCATION:		Adak, Alaska	Alaska		DATE:		15 July 1990	AIQ —	ERS: John	DIVERS: Johnston E0-2, Duran E0-3	1
	PIER	NAME/NO.		Fuel Pier		alla .	TYPE: K	XX BEARING	SING	FENDER	к []sнеет	
• •	다 다 대	MATERIAL:		TIMBER	STEEL	E PIPE	STEFL	T SHEET		KK]CONCRETE	STEEL "H" PILE	
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23	m	XX									Moderate biological growth water depth 35' moderate kelp	~~~
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75	į.	XX									Noderate biological growth water depth 40' moderate kelp	

NO=NONE, MIN=MINIMUM, MOD=MODERATE, MAJ=MAJOR, SEV=SEVER, MECH=MECHANICAL, BIO=SICLOGICAL, FUNC=FUNCTIONAL

NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043 CHI WAST VOID UNDERWATER CONS

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	LOCA	LOCATION:		Adak,	Alaska	£a		-	ATE:	15 Jr	DATE: 15 July 1980	ļ	DIVERS:	- 1	Johnston 30-2, Duran 30-3
	PIER	NAME/NO	730.		Fuel	Pier			, ILE	rype:	PILE TYPE: [XX]BEARING	ARING		FENDER	P. SHEET
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17		×	- 11.000												
2.2	4	X													Excessive biological growth water depth 38' excessive kelp
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22	Ð	XX													water depth 351
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2Ē	മ	127.													Excessive biological growth water depth 38° excessive kelp
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25		XX													
2.6	٧	×													Excessive biological growth water depth/38' excessive kelp
202	m	XX.													Excessive biological growth water depth 35' excessive kely

NO=NONE, MIN=NIGINGW, NGD=NODEPJTE, MAJ=MJJOR, SEV=SEVER, MECH=MECHINICAL, BIO-BIOLOGICAL, FUNC=FUNCTIONAL

Excessive biological growth water depth 38' excessive kel

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UNDEPMATER CONS CTION TEAM TWO MAYAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043

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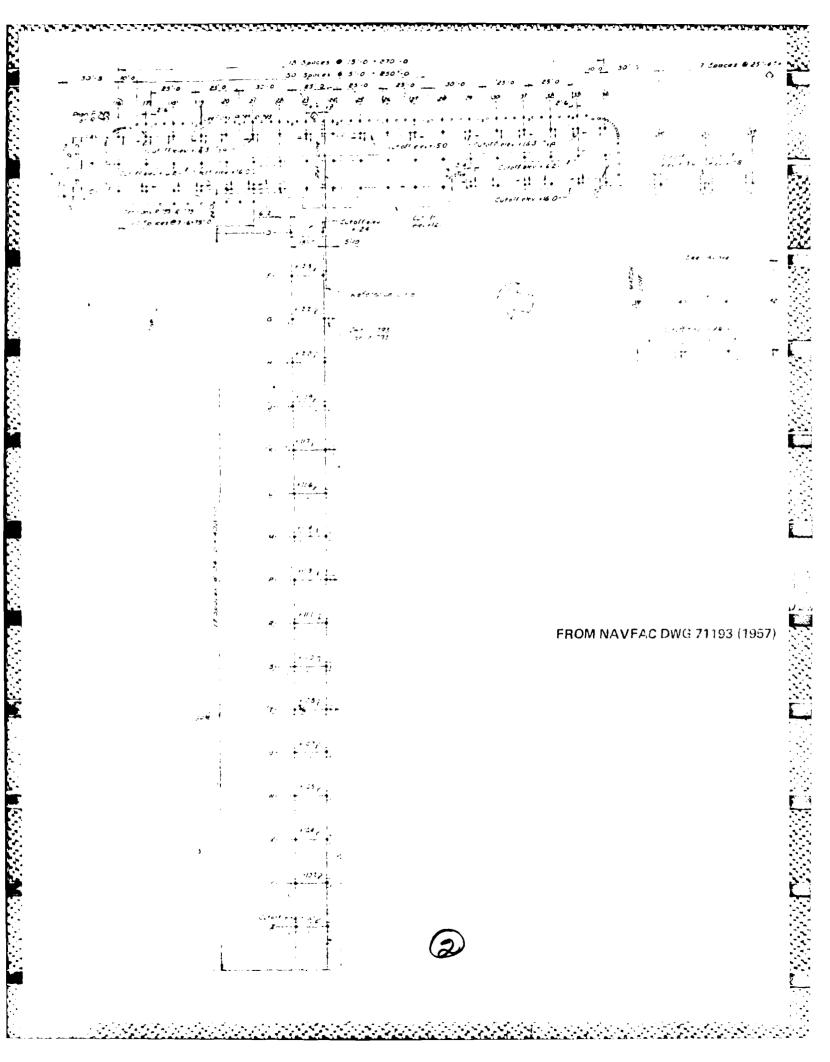
PILE PLAN

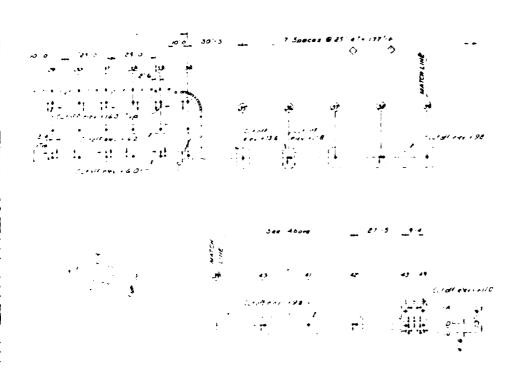
FUEL PIER

ADAK, ALASKA

Reproduced from best available copy.

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FROM NAVFAC DWG 71193 (1957)

INSPECTION SUMMARY FOR FUEL PIER ADAK, AK

- 1. UCT TWO Det Adak inspected the fuel pier, north, south catwalks and the approach pier at the Naval Station during the period 15 18 July 1980. The inspection data is referenced to Bureau of Yards and Docks drawing #711793.
- 2. The fuel pier is constructed of 16 inch diameter octagon shaped reinforced concrete piles. There is a total of 39 bents; nineteen bents with three bearing piles per bent on the main pier and 20 bents which support the north and south catwalks. Additionally, there are 17 bents of two piles per bent on the approach pier. A total of 89 piles were inspected from the mud line to the high water mark. In general, the pier is in excellent condition. No stress cracks were noted nor were any spalling and/or rust bleeding evident. Bent W and X on the approach pier do have minor damage due to spalling and flaking of concrete above the high water mark. All piles had biological growth in the splash zone consisting of kelp, barnacles and sea anemones ranging from one inch to eight inches thick.
- 3. Inspection sheets of all piles are attached as tab (A) of this enclosure. Photos of this inspection are attached as tab (B).

UNBERWATER CT NS CTION TEAM TWO NAVAL CONSTRUCTION BATTALION CENTER PORT HUENEME, CALIFORNIA 93043

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DIVERS: Gilliam HA-2, Pierce UT-2	S	STEEL "H" PILE	WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:		Loionate Lodorate	=	=	Core sample taken at 101	Moderate biological growth Moderate kelp at splash zone	= .	=	=	=	Core sample taken at 104	Moderate biological growth Moderate kelp at splash zo	=
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Core sample taken at 10°

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TIME OF DAY: 14:40 TI

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 CONTROL OF THE C MAYAL CONSTRUCTIO , BATTALION CENTER PORT HUENEME, CALIFORNIA 93043

PIER NAME/NO. Old supply pier T1403 PILE MATERIAL: X TIMBER STEEL PIPE STEEL SHEET CONCRETE STEEL "H" PILE TIME OF DAY: 09:55 TIDE: WATER DEPTH FROM DATUM = GAUGE DEPTH - TIDE:
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BENT NO.	8	3	59	59	59	59	65	59	58	58	58	58	57	57

NO=NONE,MIN=MINIMUM,MOD=WODERATE,MAJ=MAJ=MAJOP.SEVER,MECH-MECHANICAL,BIO=BIOLOGICAL,FUNC=FUNCTIONAL

MANAL CONSTRUCTION SATTALION CENTER PORT HUENEME CALIFORNIA 93043

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- 1	FENDER]concrete	= GAUGE	DAMAGE PENETR											
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17 Ju	PILE TYPE: KX BEARING	STE	R DEPTH	GAUGE											
DATE:_	PILE T	PIPE [- WATER												
		STEEL 1													
	T1403	ST		TYPE											
g	pier	ER	TIDE	33											
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¥	NO.C	MATERIAL:	DAY: 09:55	PII											
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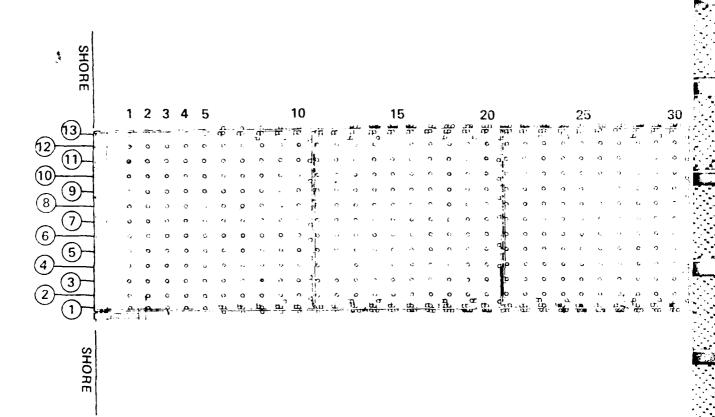
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COUPL STATION, A

SUPPLY PIEF

PILETL



PIER CONTAINS 61 BENTS

PILES ARE 16 INCH TIMBER

PIER CONTAINS FIVE F

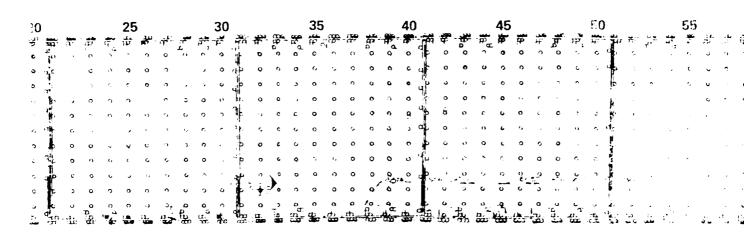
PILE DIMENSION



NAVAL STATION, ADAK, ALASKA

SUPPLY PIER T-1403

PILE PLAN



PIER CONTAINS 61 BENTS, 13 PILES PER BENT

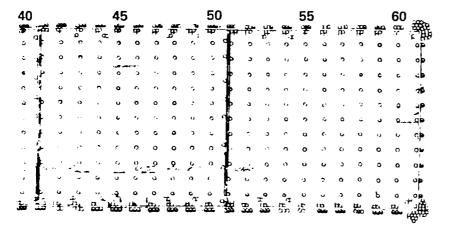
PILES ARE 16 INCH TIMBER, CREOSOTE TREATED

PIER CONTAINS FIVE FIREBREAK WALLS

PILE DIMENSIONS 96' X 617'

TAKEN FROM NAVEAC DWG GO







TAKEN FROM NAVFAC DWG 6077S51

INSPECTION SUMMARY FOR SUPPLY PIER T-1403

- 1. Supply Pier T-1403 was inspected by UCT TWO Det Adak, Alaska on 17-18 July 1980. This inspection data is referenced to NAVFAC drawing 6077551. The bearing piles supporting pier T-1403 are 16 inch diameter timber. There is a total of 780 piles with five firebreak walls. All firebreak walls appear in excellent condition. Incremental bore samples were taken on bents 6, 11, 16, 21, to determine the extent of creosote protection remaining within the pilings. Results indicated that between two and two and one half inches of creosote protection exists within the pilings sampled. There is from one to three inches of marine growth (consisting of kelp, barnacles, sea anemone) on all piles throughout the pier.
- 3. Inspection sheets are attached as tab (A) of this enclosure. Photos of the inspection are attached as tab (B).

UNDERWITER CONS CITCH TEAM TWO NAVAL CONSTRUCTION BATTALION CENTER PORT HURNEME, CALIFORNIA 93043

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LOCATION:	PIER NAME/NO.	PILE N	TIME C	PILE NO.	ж	_O	[I.4	យ	Ω	U	മ	~		m	U	7-1	D-2	5-1
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				ENT NO	38	38	33	33	38	38	38	38	33	37	37	37	37	37

NO=NONS,MIN=NIMINUM, MOD=MODERATE, MACHINATOR, CEV-SEVER, MECH=MECHANICAL, BIO=BIO1031CAL, PUNC=FUNCTIONAL

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